

# **SAFETY DATA SHEET**

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

## Section 1. Identification of the material and the supplier

Product: Ethosin 500SC

Product Use: Herbicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 March 2023

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: HSR101238** 

#### **Pictograms**







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms

<b>Prevention Code</b>	Prevention Statement
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

P280	Wear protective clothing as detailed in Section 8.
------	--

Response code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

<b>Disposal Code</b>	Disposal Statement
P501	Refer to Section 13.

## Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Ethofumesate	50	26225-79-6
Other ingredients determined not to	To bal	
be hazardous		

### Section 4. First Aid Measures

#### Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

If on Skin After contact with skin, wash immediately with soap and water. Cold water

may be used. If skin irritation occurs: get medical advice/attention.

If Swallowed Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Seek medical attention immediately. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor

immediately.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Call a POISON CENTRE or a doctor

immediately.

### Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Not applicable. **Inhalation:** Not applicable.

Skin: Causes mild skin irritation.

Eye: Causes serious eye irritation.

**Chronic:** May cause damage to organs through single, repeated or prolonged

exposure. Repeated or prolonged exposure is not known to aggravate

medical condition.

## **Section 5.** Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from products	Carbon oxides (CO, CO2) sulphur oxides (SO2, SO3).
Suitable Extinguishing media	SMALL FIRE: Use DRY chemical powder.

	LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Recommended protective clothing & Precautions for firefighters	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.
HAZCHEM CODE	3Z

### Section 6. Accidental Release Measures

### **Personal precautions:**

Use protective clothing as detailed in Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Rewash contaminated clothing before reuse.

## **Environmental precautions:**

Cover or dyke spill and prevent spreading. Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

## Spill and Disposal procedures:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to local Council regulations.

## Section 7. Handling and Storage

#### **Precautions for Handling:**

- · Read carefully and follow all instructions.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Please keep away from temperature extremes.
- Do not ingest. If ingested, seek medical advice immediately and show the container or the label.

## **Precautions for Storage:**

- Store in original container tightly closed, locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds.
- Protect from extreme temperatures.
- Keep out of reach of children.
- Stores containing more than 100L of product require emergency response plans and secondary containment systems and are subject to signage.
- Refer to the current standard NZS8409 Management of Agrichemicals.
- Store away from incompatible materials listed in Section 10.

### **Section 8 Exposure Controls / Personal Protection**

### **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the

short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

## **Engineering Controls / Industrial Hygiene**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

# **Personal Protection Equipment**



Eyes	Wear safety goggles with side-shields.
Hands	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use and wash hands and face before breaks and after work.

# **Section 9** Physical and Chemical Properties

Appearance	Liquid (suspension concentrate)
Colour	White to cream white liquid
Odour	Characteristic
Odour Threshold	Not available
pH	7.7
Melting Point/Boiling Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.089
Water Solubility	Suspends in water
Partition Coefficient:	Not available
Ignition Temperature	Not available
<b>Decomposition Temperature</b>	Not available
Viscosity	Not available
Particle Characteristics	Not available

## Section 10. Stability and Reactivity

Stability of Substance	Stable under normal storage and handling conditions.
Possibility of hazardous reactions	None under normal storage and use conditions.
Conditions to Avoid	None known.
Incompatible Materials	None known.
<b>Hazardous Decomposition</b>	Carbon oxides (CO, CO2) sulphur oxides (SO2,
Products	S03).

# Section 11 Toxicological Information

## **Acute Effects:**

reace Effects		
Swallowed	Not applicable. LD50: > 2100 mg/kg, rat.	
Dermal	Not applicable. LD50 >4100 mg/kg	

Inhalation	Not applicable.	
Eye	Causes serious eye irritation.	
Skin	Not applicable.	

## **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated exposure.	

## Section 12. Ecotoxicological Information

Ecological effects information	Toxic to aquatic life with long lasting effects.	
	Hazardous to soil organisms.	
Persistence and degradability	No data available	
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Acute fish toxicity:	Ethofumesate:	
	LC50 (96 h) for rainbow trout 11.91–20.2, bluegill	
	sunfish 12.37-21.2, mirror carp 10.92 mg/l.	
Toxicity for daphnia:	EC50 (48 h) 13.52-22.0 mg/l.	
Toxicity to algae:	EC50 3.9 mg/l.	
Precautions:	Do not allow to enter waterways.	

## **Section 13. Disposal Considerations**

## **Disposal Method:**

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



# **Empty container precautions:**

Avoid contamination of any water supply with chemical or empty container.

**Precautions or methods to avoid:** Avoid release to the environment.

# **Section 14** Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



## Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S (ETHOFUMESATE)	
Marine Pollutant	Yes	

Special Provisions-	If the product's individual container is below 5L, it can be
Limited Quantities	transported as a non-DG as long as the product packaging is still
_	labelled as per DG requirements and the driver is given safety
	information in accordance with Chapter 3.4 of the UNRTDG.

#### Section 15 **Regulatory Information**

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR101238

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	1000L
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Tracking (Schedule 26)	Not required
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls
	document - HSR101238
<b>HSNO Additional Controls (Restrictions of</b>	
77A	Please refer to the control document for all
	controls as above
77A	A maximum limit of 0.1 mg/kg is set for the toxicologically relevant impurities ethyl methane sulfonate (EMS) and iso-butyl
	methane sulfonate (iBMS) in the active ingredient ethofumesate used to manufacture this substance.
77A	This substance must be applied using ground-based methods only, where ground-based methods of applying pesticides include, but are not limited to, application byground boom, airblast or knapsack, and do not include aerial application methods.
77A	This substance must only be applied on fodder beet and red beet (sugar beet and mangolds).
	The maximum application rate of this substance is 0.31 kg of a.i./ha. The maximum application frequency and minimum interval period of this substance must not be more than three per crop cycle per calendar year and a minimum interval of 5 days.
ACVM Act and Regulations	
ACVM Approval No	P9366
See <u>www.foodsafety.govt.nz</u> for registration controls	

#### **Section 16 Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Product Name: Ethosin 500SC SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

Date of SDS: 21 March 2023 Tel: 64 9 475 5240 www.techcomp.co.nz Glossary

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Adria, if further information is required.

Issue Date: 21 March 2023 Review Date: 21 March 2028